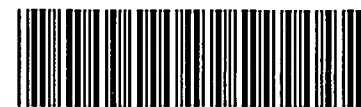


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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/428,082B

DATE: 08/21/2002

TIME: 15:15:35

Input Set : A:\A-527.ST25.txt

Output Set: N:\CRF4\08212002\I428082B.raw

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3 <110> APPLICANT: FEIGE, ULRICH
4     LIU, CHUAN-FA
5     CHEETHAM, JANET C.
6     BOONE, THOMAS CHARLES
8 <120> TITLE OF INVENTION: MODIFIED PEPTIDES AS THERAPEUTIC AGENTS
10 <130> FILE REFERENCE: A-527
12 <140> CURRENT APPLICATION NUMBER: 09/428,082B
13 <141> CURRENT FILING DATE: 1999-10-22
15 <150> PRIOR APPLICATION NUMBER: 60/105,371
16 <151> PRIOR FILING DATE: 1998-10-23
18 <160> NUMBER OF SEQ ID NOS: 1133
20 <170> SOFTWARE: PatentIn version 3.1
22 <210> SEQ ID NO: 1
23 <211> LENGTH: 684
24 <212> TYPE: DNA
25 <213> ORGANISM: HUMAN
27 <220> FEATURE:
28 <221> NAME/KEY: CDS
29 <222> LOCATION: (1)..(684)
30 <223> OTHER INFORMATION:
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35 Met Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu
36 1          5          10          15
38 ggg gga ccg tca gtc ttc ctc ttc ccc cca aaa ccc aag gac acc ctc      96
39 Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu
40 20          25          30
42 atg atc tcc cgg acc cct gag gtc aca tgc gtg gtg gtg gac gtg agc      144
43 Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser
44 35          40          45
46 cac gaa gac cct gag gtc aag ttc aac tgg tac gtg gac ggc gtg gag      192
47 His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu
48 50          55          60
50 gtg cat aat gcc aag aca aag ccg cgg gag gag cag tac aac agc acg      240
51 Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr
52 65          70          75          80
54 tac cgt gtg gtc agc gtc ctc acc gtc ctg cac cag gac tgg ctg aat      288
55 Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn
56 85          90          95
58 ggc aag gag tac aag tgc aag gtc tcc aac aaa gcc ctc cca gcc ccc      336
59 Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro
60 100         105         110
62 atc gag aaa acc atc tcc aaa gcc aaa ggg cag ccc cga gaa cca cag      384

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RAW SEQUENCE LISTING

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Input Set : A:\A-527.ST25.txt

Output Set: N:\CRF4\08212002\I428082B.raw

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63 Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln
64      115      120      125
66 gtg tac acc ctg ccc cca tcc cgg gat gag ctg acc aag aac cag gtc      432
67 Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val
68      130      135      140
70 agc ctg acc tgc ctg gtc aaa ggc ttc tat ccc agc gac atc gcc gtg      480
71 Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val
72 145      150      155      160
74 gag tgg gag agc aat ggg cag ccg gag aac aac tac aag acc acg cct      528
75 Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro
76      165      170      175
78 ccc gtg ctg gac tcc gac ggc tcc ttc ttc ctc tac agc aag ctc acc      576
79 Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr
80      180      185      190
82 gtg gac aag agc agg tgg cag cag ggg aac gtc ttc tca tgc tcc gtg      624
83 Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val
84      195      200      205
86 atg cat gag gct ctg cac aac cac tac acg cag aag agc ctc tcc ctg      672
87 Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu
88      210      215      220
90 tct ccg ggt aaa      684
91 Ser Pro Gly Lys
92 225
95 <210> SEQ ID NO: 2
96 <211> LENGTH: 228
97 <212> TYPE: PRT
98 <213> ORGANISM: HUMAN
100 <400> SEQUENCE: 2
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103 1      5      10      15
106 Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu
107      20      25      30
110 Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser
111      35      40      45
114 His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu
115      50      55      60
118 Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr
119 65      70      75      80
122 Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn
123      85      90      95
126 Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro
127      100      105      110
130 Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln
131      115      120      125
134 Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val
135      130      135      140
138 Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val
139 145      150      155      160
142 Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro

```

RAW SEQUENCE LISTING

DATE: 08/21/2002

PATENT APPLICATION: US/09/428,082B

TIME: 15:15:35

Input Set : A:\A-527.ST25.txt

Output Set: N:\CRF4\08212002\I428082B.raw

```

143          165          170          175
146 Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr
147          180          185          190
150 Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val
151          195          200          205
154 Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu
155          210          215          220
158 Ser Pro Gly Lys
159 225
162 <210> SEQ ID NO: 3
163 <211> LENGTH: 36
164 <212> TYPE: PRT
165 <213> ORGANISM: Artificial Sequence
167 <220> FEATURE:
168 <223> OTHER INFORMATION: SYNTHETIC SCHEME FOR PREPARATION OF PEGYLATED PEPTIDE
170 <220> FEATURE:
171 <221> NAME/KEY: misc_feature
172 <222> LOCATION: (18)..(18)
173 <223> OTHER INFORMATION: Methoxy-polyethylene glycol (5000 Dalton)-sulfoacetyl group
attac
174      hed to the sidechain.
177 <400> SEQUENCE: 3
179 Ile Glu Gly Pro Thr Leu Arg Gln Trp Leu Ala Ala Arg Ala Gly Gly
180 1          5          10          15
183 Gly Lys Gly Gly Gly Gly Ile Glu Gly Pro Thr Leu Arg Gln Trp Leu
184          20          25          30
187 Ala Ala Arg Ala
188          35
191 <210> SEQ ID NO: 4
192 <211> LENGTH: 36
193 <212> TYPE: PRT
194 <213> ORGANISM: Artificial Sequence
196 <220> FEATURE:
197 <223> OTHER INFORMATION: SYNTHETIC SCHEME FOR PREPARATION OF PEGYLATED PEPTIDE
199 <220> FEATURE:
200 <221> NAME/KEY: misc_feature
201 <222> LOCATION: (18)..(18)
202 <223> OTHER INFORMATION: Methoxy-polyethylene glycol (5000 Dalton)-succinimidyl group
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203      ched to the sidechain.
206 <400> SEQUENCE: 4
208 Ile Glu Gly Pro Thr Leu Arg Gln Trp Leu Ala Ala Arg Ala Gly Gly
209 1          5          10          15
212 Gly Cys Gly Gly Gly Gly Ile Glu Gly Pro Thr Leu Arg Gln Trp Leu
213          20          25          30
216 Ala Ala Arg Ala
217          35
220 <210> SEQ ID NO: 5
221 <211> LENGTH: 794
222 <212> TYPE: DNA
223 <213> ORGANISM: Artificial Sequence

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RAW SEQUENCE LISTING

DATE: 08/21/2002

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TIME: 15:15:35

Input Set : A:\A-527.ST25.txt

Output Set: N:\CRF4\08212002\I428082B.raw

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225 <220> FEATURE:
226 <223> OTHER INFORMATION: Fc-TMP
228 <220> FEATURE:
229 <221> NAME/KEY: CDS
230 <222> LOCATION: (39)..(779)
231 <223> OTHER INFORMATION:
234 <400> SEQUENCE: 5
235 tctagatttg ttttaactaa ttaaaggagg aataacat atg gac aaa act cac aca      56
236                                     Met Asp Lys Thr His Thr
237                                     1           5
239 tgt cca cct tgt cca gct ccg gaa ctc ctg ggg gga ccg tca gtc ttc      104
240 Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe
241           10           15           20
243 ctc ttc ccc cca aaa ccc aag gac acc ctc atg atc tcc cgg acc cct      152
244 Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro
245           25           30           35
247 gag gtc aca tgc gtg gtg gtg gac gtg agc cac gaa gac cct gag gtc      200
248 Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val
249           40           45           50
251 aag ttc aac tgg tac gtg gac ggc gtg gag gtg cat aat gcc aag aca      248
252 Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr
253 55           60           65           70
255 aag ccg cgg gag gag cag tac aac agc acg tac cgt gtg gtc agc gtc      296
256 Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val
257           75           80           85
259 ctc acc gtc ctg cac cag gac tgg ctg aat ggc aag gag tac aag tgc      344
260 Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys
261           90           95           100
263 aag gtc tcc aac aaa gcc ctc cca gcc ccc atc gag aaa acc atc tcc      392
264 Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser
265           105           110           115
267 aaa gcc aaa ggg cag ccc cga gaa cca cag gtg tac acc ctg ccc cca      440
268 Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro
269           120           125           130
271 tcc cgg gat gag ctg acc aag aac cag gtc agc ctg acc tgc ctg gtc      488
272 Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val
273 135           140           145           150
275 aaa ggc ttc tat ccc agc gac atc gcc gtg gag tgg gag agc aat ggg      536
276 Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly
277           155           160           165
279 cag ccg gag aac aac tac aag acc acg cct ccc gtg ctg gac tcc gac      584
280 Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp
281           170           175           180
283 ggc tcc ttc ttc ctc tac agc aag ctc acc gtg gac aag agc agg tgg      632
284 Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp
285           185           190           195
287 cag cag ggg aac gtc ttc tca tgc tcc gtg atg cat gag gct ctg cac      680
288 Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His
289           200           205           210

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RAW SEQUENCE LISTING

DATE: 08/21/2002

PATENT APPLICATION: US/09/428,082B

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Input Set : A:\A-527.ST25.txt

Output Set: N:\CRF4\08212002\I428082B.raw

```

291 aac cac tac acg cag aag agc ctc tcc ctg tct ccg ggt aaa ggt gga      728
292 Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys Gly Gly
293 215                220                225                230
295 ggt ggt ggt atc gaa ggt ccg act ctg cgt cag tgg ctg gct gct cgt      776
296 Gly Gly Gly Ile Glu Gly Pro Thr Leu Arg Gln Trp Leu Ala Ala Arg
297                235                240                245
299 gct taatctcgag gatcc      794
300 Ala
304 <210> SEQ ID NO: 6
305 <211> LENGTH: 247
306 <212> TYPE: PRT
307 <213> ORGANISM: Artificial Sequence
309 <220> FEATURE:
310 <223> OTHER INFORMATION: Fc-TMP
312 <400> SEQUENCE: 6
314 Met Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu
315 1                5                10                15
318 Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu
319                20                25                30
322 Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser
323                35                40                45
326 His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu
327                50                55                60
330 Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr
331 65                70                75                80
334 Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn
335                85                90                95
338 Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro
339                100               105               110
342 Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln
343                115               120               125
346 Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val
347                130               135               140
350 Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val
351 145               150               155               160
354 Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro
355                165               170               175
358 Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr
359                180               185               190
362 Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val
363                195               200               205
366 Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu
367                210               215               220
370 Ser Pro Gly Lys Gly Gly Gly Gly Ile Glu Gly Pro Thr Leu Arg
371 225               230               235               240
374 Gln Trp Leu Ala Ala Arg Ala
375                245
378 <210> SEQ ID NO: 7
379 <211> LENGTH: 861

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/428,082B

DATE: 08/21/2002
TIME: 15:15:36

Input Set : A:\A-527.ST25.txt
Output Set: N:\CRF4\08212002\I428082B.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:33; Xaa Pos. 6,7,8
Seq#:45; Xaa Pos. 8,9,10
Seq#:56; Xaa Pos. 8,9
Seq#:57; Xaa Pos. 8,9,10
Seq#:58; Xaa Pos. 8,9,10,11
Seq#:59; Xaa Pos. 8,9,10,11,12
Seq#:60; Xaa Pos. 8,9,10,11,12,13
Seq#:71; Xaa Pos. 2,12
Seq#:72; Xaa Pos. 2,3,13
Seq#:73; Xaa Pos. 2,12,13
Seq#:74; Xaa Pos. 2,3,13,14
Seq#:83; Xaa Pos. 2,4,5,8,11,13
Seq#:84; Xaa Pos. 2,4,5,8,11,13,16,18,19,22,25,27
Seq#:85; Xaa Pos. 2,4,5,8,11,13
Seq#:86; Xaa Pos. 2,4,5,8,11,13
Seq#:100; Xaa Pos. 4
Seq#:101; Xaa Pos. 1,5
Seq#:102; Xaa Pos. 1,4
Seq#:104; Xaa Pos. 4
Seq#:124; Xaa Pos. 1,2,3,6,9,10
Seq#:142; Xaa Pos. 2,4,8,9
Seq#:212; Xaa Pos. 1,2,3,5,7,8,9
Seq#:221; Xaa Pos. 10
Seq#:222; Xaa Pos. 10
Seq#:223; Xaa Pos. 11
Seq#:224; Xaa Pos. 10
Seq#:225; Xaa Pos. 10
Seq#:226; Xaa Pos. 10
Seq#:227; Xaa Pos. 10
Seq#:228; Xaa Pos. 10
Seq#:229; Xaa Pos. 6,10
Seq#:230; Xaa Pos. 6,10
Seq#:234; Xaa Pos. 5,10
Seq#:235; Xaa Pos. 5,10
Seq#:236; Xaa Pos. 6,10
Seq#:237; Xaa Pos. 5,10
Seq#:240; Xaa Pos. 10
Seq#:241; Xaa Pos. 10
Seq#:242; Xaa Pos. 8,10
Seq#:243; Xaa Pos. 10
Seq#:244; Xaa Pos. 10
Seq#:245; Xaa Pos. 10
Seq#:246; Xaa Pos. 10
Seq#:247; Xaa Pos. 10

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/428,082B

DATE: 08/21/2002
TIME: 15:15:36

Input Set : A:\A-527.ST25.txt
Output Set: N:\CRF4\08212002\I428082B.raw

Seq#:248; Xaa Pos. 10
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Seq#:253; Xaa Pos. 10
Seq#:254; Xaa Pos. 5,10
Seq#:255; Xaa Pos. 6,10
Seq#:256; Xaa Pos. 5,10
Seq#:258; Xaa Pos. 1,10
Seq#:259; Xaa Pos. 10
Seq#:260; Xaa Pos. 10
Seq#:261; Xaa Pos. 10
Seq#:262; Xaa Pos. 10
Seq#:307; Xaa Pos. 1,2,3,11
Seq#:308; Xaa Pos. 1,2,3,11,12
Seq#:309; Xaa Pos. 1,2,3,11,12
Seq#:310; Xaa Pos. 2,3,11
Seq#:311; Xaa Pos. 2,3
Seq#:312; Xaa Pos. 11,12
Seq#:313; Xaa Pos. 11,12
Seq#:314; Xaa Pos. 2,3,8,9
Seq#:315; Xaa Pos. 1,2,3,8
Seq#:316; Xaa Pos. 3,4,9
Seq#:317; Xaa Pos. 1,4,6,9
Seq#:318; Xaa Pos. 3,4,6,8,10
Seq#:319; Xaa Pos. 8,9
Seq#:320; Xaa Pos. 1,3,6
Seq#:321; Xaa Pos. 1,2,4,8
Seq#:322; Xaa Pos. 2,3
Seq#:325; Xaa Pos. 1,3,5,7,8,10,11
Seq#:358; Xaa Pos. 19
Seq#:360; Xaa Pos. 19
Seq#:361; Xaa Pos. 19
Seq#:419; Xaa Pos. 1,3,4,5,6,9,12,13,14,15,16
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Seq#:421; Xaa Pos. 2,3,6,9
Seq#:433; Xaa Pos. 4,5,6
Seq#:435; Xaa Pos. 3,5,6
Seq#:441; Xaa Pos. 2,5,7
Seq#:442; Xaa Pos. 2,5,7
Seq#:443; Xaa Pos. 5
Seq#:444; Xaa Pos. 6
Seq#:445; Xaa Pos. 2,3,4,8,9,10,11,12,13,14
Seq#:448; Xaa Pos. 1,2,3,7,8,9
Seq#:449; Xaa Pos. 2,8
Seq#:453; Xaa Pos. 1,2,5,6,7,8
Seq#:454; Xaa Pos. 1,2,3,6,7,8,9,10
Seq#:461; Xaa Pos. 2,3,4,5,8,11,12
Seq#:466; Xaa Pos. 3,15
Seq#:467; Xaa Pos. 3,5,6,13,15
Seq#:468; Xaa Pos. 13,15

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/428,082B

DATE: 08/21/2002
TIME: 15:15:36

Input Set : A:\A-527.ST25.txt
Output Set: N:\CRF4\08212002\I428082B.raw

Seq#:469; Xaa Pos. 2,3,4,7,15
Seq#:470; Xaa Pos. 3,4,5,6,8,13,15,18
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Seq#:472; Xaa Pos. 1,3,6,9,12,13
Seq#:473; Xaa Pos. 1,2,10,12
Seq#:580; Xaa Pos. 1
Seq#:583; Xaa Pos. 1
Seq#:584; Xaa Pos. 1
Seq#:585; Xaa Pos. 1
Seq#:592; Xaa Pos. 1,2,3
Seq#:593; Xaa Pos. 1,3
Seq#:594; Xaa Pos. 1,5,6,7
Seq#:602; Xaa Pos. 3
Seq#:603; Xaa Pos. 5
Seq#:607; Xaa Pos. 1
Seq#:608; Xaa Pos. 1
Seq#:609; Xaa Pos. 4
Seq#:622; Xaa Pos. 1,3
Seq#:625; Xaa Pos. 5
Seq#:632; Xaa Pos. 1,3
Seq#:633; Xaa Pos. 1
Seq#:634; Xaa Pos. 1
Seq#:635; Xaa Pos. 4
Seq#:639; Xaa Pos. 5
Seq#:645; Xaa Pos. 1
Seq#:765; Xaa Pos. 12,13,16
Seq#:825; Xaa Pos. 2,3,5,6
Seq#:830; Xaa Pos. 5,6
Seq#:832; Xaa Pos. 5,6
Seq#:834; Xaa Pos. 5,6
Seq#:836; Xaa Pos. 1,2
Seq#:897; Xaa Pos. 1,2,6
Seq#:900; Xaa Pos. 10
Seq#:901; Xaa Pos. 10
Seq#:903; Xaa Pos. 13
Seq#:907; Xaa Pos. 1,2,4,6,7,8
Seq#:908; Xaa Pos. 1,2,4,6,7,8
Seq#:909; Xaa Pos. 1,2,4,6,7,8
Seq#:910; Xaa Pos. 1,2,3,5,7,8,9
Seq#:912; Xaa Pos. 10
Seq#:914; Xaa Pos. 10
Seq#:916; Xaa Pos. 10
Seq#:917; Xaa Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,16,18,19,20
Seq#:926; Xaa Pos. 10
Seq#:928; Xaa Pos. 10
Seq#:929; Xaa Pos. 10
Seq#:930; Xaa Pos. 10
Seq#:931; Xaa Pos. 10
Seq#:932; Xaa Pos. 10

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/428,082B

DATE: 08/21/2002
TIME: 15:15:36

Input Set : A:\A-527.ST25.txt
Output Set: N:\CRF4\08212002\I428082B.raw

Seq#:933; Xaa Pos. 10
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Seq#:937; Xaa Pos. 10
Seq#:938; Xaa Pos. 10
Seq#:939; Xaa Pos. 10
Seq#:940; Xaa Pos. 5,10
Seq#:941; Xaa Pos. 5,10
Seq#:942; Xaa Pos. 6,10
Seq#:943; Xaa Pos. 6,10
Seq#:944; Xaa Pos. 5,10
Seq#:945; Xaa Pos. 10
Seq#:946; Xaa Pos. 10
Seq#:947; Xaa Pos. 10
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Seq#:949; Xaa Pos. 10
Seq#:950; Xaa Pos. 1,10
Seq#:951; Xaa Pos. 10
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Seq#:955; Xaa Pos. 10
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Seq#:961; Xaa Pos. 3
Seq#:962; Xaa Pos. 7
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Seq#:971; Xaa Pos. 1,10
Seq#:972; Xaa Pos. 1,10
Seq#:975; Xaa Pos. 5
Seq#:979; Xaa Pos. 1,3,4,5,6,7,8,9,10,11
Seq#:1002; Xaa Pos. 1,2,3,6
Seq#:1004; Xaa Pos. 10
Seq#:1006; Xaa Pos. 10
Seq#:1007; Xaa Pos. 10
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Seq#:1009; Xaa Pos. 10
Seq#:1010; Xaa Pos. 10
Seq#:1011; Xaa Pos. 10

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/428,082B

DATE: 08/21/2002
TIME: 15:15:36

Input Set : A:\A-527.ST25.txt
Output Set: N:\CRF4\08212002\I428082B.raw

Seq#:1012; Xaa Pos. 10
Seq#:1013; Xaa Pos. 10
Seq#:1014; Xaa Pos. 10
Seq#:1015; Xaa Pos. 10
Seq#:1016; Xaa Pos. 10
Seq#:1018; Xaa Pos. 10
Seq#:1019; Xaa Pos. 10
Seq#:1020; Xaa Pos. 10
Seq#:1021; Xaa Pos. 10
Seq#:1022; Xaa Pos. 10
Seq#:1023; Xaa Pos. 10
Seq#:1042; Xaa Pos. 1,2,3,4,7,10,11
Seq#:1043; Xaa Pos. 3,4
Seq#:1091; Xaa Pos. 6
Seq#:1092; Xaa Pos. 2,3,8,9
Seq#:1093; Xaa Pos. 2,4

VERIFICATION SUMMARY

DATE: 08/21/2002

PATENT APPLICATION: US/09/428,082B

TIME: 15:15:36

Input Set : A:\A-527.ST25.txt

Output Set: N:\CRF4\08212002\I428082B.raw

L:1838 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:0
L:2012 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45 after pos.:0
L:2172 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56 after pos.:0
L:2192 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57 after pos.:0
L:2212 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:58 after pos.:0
L:2232 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:59 after pos.:0
L:2252 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:60 after pos.:0
L:2412 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71 after pos.:0
L:2432 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:72 after pos.:0
L:2452 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73 after pos.:0
L:2472 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:74 after pos.:0
L:2632 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:83 after pos.:0
L:2652 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:84 after pos.:0
L:2656 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:84 after pos.:16
L:2682 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:85 after pos.:0
L:2702 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:86 after pos.:0
L:2994 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:100 after pos.:0
L:3021 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:101 after pos.:0
L:3048 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:102 after pos.:0
L:3094 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:104 after pos.:0
L:3412 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:124 after pos.:0
L:3674 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:142 after pos.:0
L:4844 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:212 after pos.:0
L:5000 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:221 after pos.:0
L:5026 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:222 after pos.:0
L:5046 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:223 after pos.:0
L:5066 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:224 after pos.:0
L:5086 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:225 after pos.:0
L:5106 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:226 after pos.:0
L:5126 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:227 after pos.:0
L:5152 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:228 after pos.:0
L:5179 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:229 after pos.:0
L:5205 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:230 after pos.:0
L:5274 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:234 after pos.:0
L:5301 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:235 after pos.:0
L:5328 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:236 after pos.:0
L:5355 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:237 after pos.:0
L:5422 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:240 after pos.:0
L:5454 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:241 after pos.:0
L:5486 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:242 after pos.:0
L:5512 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:243 after pos.:0
L:5538 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:244 after pos.:0
L:5564 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:245 after pos.:0
L:5590 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:246 after pos.:0
L:5622 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:247 after pos.:0
L:5654 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:248 after pos.:0
L:5686 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:249 after pos.:0
L:5778 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:253 after pos.:0

VERIFICATION SUMMARY

DATE: 08/21/2002

PATENT APPLICATION: US/09/428,082B

TIME: 15:15:36

Input Set : A:\A-527.ST25.txt

Output Set: N:\CRF4\08212002\I428082B.raw

L:5810 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:254 after pos.:0

L:5836 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:255 after pos.:0